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NOTICE OF ALLOWANCE AND FEE(S) DUE

21171 7590 04/30/2009

STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005 EXAMINER SAMUEL, DEWANDA A

PAPER NUMBER

ART UNIT

DATE MAILED: 04/30/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/769,752	02/03/2004	Naoki Oguchi	1341.1182	9761			
TITLE OF INVENTION: PACKET PROCESSING SYSTEM							

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includired below or directed oth	or transmitting the ISS ig the Patent, advance nerwise in Block 1, by	orders and notification of (a) specifying a new corre	maintenance fees wi spondence address;	ill be mailed to the currer and/or (b) indicating a se	should be completed where it correspondence address as parate "FEE ADDRESS" for
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						(Date)
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/30/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS	1		
SAMUEL, DI	EWANDA A	2416	370-235000	J		
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA ess an assignee is ident h in 37 CFR 3.11. Comp	inge of Correspondence "Indication form led. Use of a Customer A TO BE PRINTED ON	2. For printing on the j (1) the names of up is or agents OR, alternati (2) the name of a sing registered attorney or 2 registered paternation listed, no name will be THE PATENT (print or ty edata will appear on the p T a substitute for filing an T (B) RESIDENCE: (CITY	o 3 registered patent wely, le firm (having as a agent) and the name orneys or agents. If n printed. pe) patent. If an assigne- assignment.	attorneys I	document has been filed for
Please check the appropri	iate assignee category or	categories (will not be p	orinted on the patent):	Individual Cor	rporation or other private g	roup entity Government
4a. The following fee(s): Issue Fee Publication Fee (N Advance Order - #	o small entity discount p		Hb. Payment of Fee(s): (Ple A check is enclosed. Payment by credit ca The Director is hereb overpayment, to Depa	rd. Form PTO-2038	is attached.	e shown above) deficiency, or credit any an extra copy of this form).
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interest as shown by the	d Publication Fee (it requeecords of the United Sta	uired) will not be accept ites Patent and Trademar	ed from anyone other than k Office.	the applicant; a regis	tered attorney or agent; or	the assignee or other party in
Authorized Signature				Date		
Typed or printed name				Registration No		
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	EFR 1.311. The informat U.S.C. 122 and 37 CFF USPTO. Time will var rden, should be sent to t O NOT SEND FEES OR	ion is required to obtain or k 1.14. This collection is es y depending upon the indi he Chief Information Offic COMPLETED FORMS T	retain a benefit by th timated to take 12 m vidual case. Any cor er, U.S. Patent and T O THIS ADDRESS.	e public which is to file (a ainutes to complete, includ nments on the amount of frademark Office, U.S. De SEND TO: Commissione	nd by the USPTO to process) ing gathering, preparing, and time you require to complete partment of Commerce, P.O. r for Patents, P.O. Box 1450,

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STAAS & HA	STAAS & HALSEY LLP			SAMUEL, DEWANDA A		
SUITE 700					PAPER NUMBER	
1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			2416 DATE MAII ED: 04/30/200	9		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 960 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 960 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/769,752 OGUCHI ET AL. Notice of Allowability Examiner Art Unit DEWANDA SAMUEL 2416 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 11 February 2009. The allowed claim(s) is/are 2,4-9,13,15,16,17, 19, 21-44 renumbered respectively. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🛛 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. T Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material Other .

Application/Control Number: 10/769,752 Page 2

Art Unit: 2416

DETAILED ACTION

This communication is responsive to the communication filed on 02/11/2009.
 Claims 2,4-9,13,15,16,17, 19, 21-44 are pending and claims 1, 3, 10-12,14,18 and 20 were cancelled.

Allowable Subject Matter

2. The following is a statement of reasons for the indication of allowable subject matter: Putzolu et al. (US Patent 7,203,740) discloses having a proprietary forwarding element which is capable of forwarding and processing data packet. Putzolu et al. further discloses having a control element that handles all control functions, including routing and signaling protocols and responds to a packet using a network service API (application program interface) and controls/modify the behavior of the data forwarding path in both the data and control planes. Putzolu et al. discloses having a switching node comprised of a forwarding element which includes a plurality of forwarding rules that facilitates packet filtering and delivering to the control plane and the next hop or destination. Terrell et al. (PG PUB 2007/0033413) discloses having a system for secure data communication and a networkincludes servers, clients and network devices, server provides data storage and application hosting to support conventional distributed processing applications programs and the server functions may include web suite hosting, application service provision, internet service

Application/Control Number: 10/769,752

Art Unit: 2416

provisioning. Terrell et al. further discloses data is identified by the application program according to its virtual address, the virtual address specified m an application are generally relative to the value of a base register maintained by the operating system and a map maintained by a memory management unit. Subramanian et al.(US Patent 6,970,943) discloses having a routing architecture including a compute plane, control plane and a forward plane and the control plane which provides the overall control and configuration for the routing node this control may range from running diagnostics to setting configurations for the compute plane nd the forward plane. Subramanian et al. further discloses the network API can be used to instruct the forward plane to alter packet processing through the installation of hardware or software filters that facilitate forwarding rules these filters execute actions specified by a defined filter policy. Harvey (US patent 5,867,666) discloses having a virtual interfaces with dynamic binding. Harvey further discloses providing a virtual interface binding to a physical interface. However, the prior art fails to anticipate or render obvious the following recited features: Claims 2 and similar claims 4.5,78.9,13. 15,16,17,19,21,22,23,24 31 and 35 limitations: "A packet processing system comprising: a forwarding device that transmits and receives a packet through a network interface; and a control device that transfers the packet between the control device and the forwarding device, and responds to the packet using an application, wherein the control device includes a symbol section that is associated with address information of the forwarding device; and a first transfer control section that when detecting that the

Application/Control Number: 10/769,752

Art Unit: 2416

application accesses the symbol section, sets a packet transfer rule in the forwarding device by transmitting to the forwarding device a setting request that the forwarding device sets the packet transfer rule that is used to transfer the received packet to the control device, and the forwarding device includes a second transfer control section that sets the packet transfer rule in response to the setting request, wherein the symbol section is a virtual interface corresponding to the network interface, the first transfer control section, when detecting that the application closes a communication port for access to the symbol section, cancels the packet transfer rule in the forwarding device by transmitting to the forwarding device a cancel request that the forwarding device cancels the packet transfer rule in response to the cancel request.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Aiken (PG PUB 2002/0143953)

Art Unit: 2416

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DEWANDA SAMUEL whose telephone number is (571)270-1213. The examiner can normally be reached on Monday- Thursday 8:30-5:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Q. Ngo can be reached on (571) 272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ricky Ngo/ Supervisory Patent Examiner, Art Unit 2416 Application/Control Number: 10/769,752

Page 6

Art Unit: 2416

Examiner, Art Unit 2416

4/30/2009